AIRCRAFT RESCUE and FIRE FIGHTING (ARFF)

Federal Aviation Administration

Presented to: Southern Area Regional Conference

By: Marc Tonnacliff

Date: January 2011

TOPICS TO COVER

- 150/5200.31C
- NIMS Information
- ARFF Training DVD's
- FAA ARFF Website
- Advisory Circulars
- ACRP Projects
- FAA Technical Center Projects

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MAJOR CHANGES TO AC 150/5200.31C

AIRPORT EMERGENCY PLAN

CHANGES TO AC 150/5200.31C

- Since its original release (September 2009), one reference within the document has changed:
  - **pg. 5, para 2 State and Local Guide 101 was changed to Complete Preparedness Guide 101**
- The document can be accessed at http://www.fema.gov/pdf/about/divisions/npd/cpg_101_layout.pdf

- Change in submission Date: June 30, 2011

NIMS Background

- **Provides national standard for incident management**

- **Based on the National Interagency Incident Management System (NIIMS) Incident Command System (ICS)**

- **Originally published in March 2004**

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NIMS: What it is and What its not

NIMS Is…

- Comprehensive, nationwide, systematic approach to incident management
- Set of preparedness concepts and principles for all hazards
- Essential principles for a common operating picture and interoperability of communications and information management
- Standardized resource management procedures for coordination among different jurisdictions/ organizations
- Scalable and applicable for all incidents

NIMS Is Not…

- A response plan
- A communication plan
- Something that is used only during large incidents
- Only applicable to certain emergency responders
- Only the Incident Command System or an organizational chart
- A static system

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NIMS Components

- Preparedness
- Communications and Information Management
- Resource Management
- Command and Management
  - Incident Command System
  - Multi-agency Coordination Systems
  - Public Information Systems
- Ongoing Management and Maintenance

NIMS Components--Preparedness

Preparedness is achieved and maintained through a continuous cycle

NIMS Components - Communications and Information Management

- Common operating picture
- Common communications and data standards to assure accessibility and interoperability

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NIMS Components - Resource Management

- Establishing systems for describing, inventorying, requesting, and tracking resources

- Activating those systems prior to, during, and after an incident

- Dispatching resources prior to, during, and after an incident

- Deactivating or recalling resources during or after incidents

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NIMS Components-Command & Management

- Incident Command System
- Multiagency Coordination Systems
- Public Information Systems

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Incident Command System (ICS)

- ICS is a standardized, on-scene, all-hazard incident management concept

- ICS allows its users to adopt an integrated organizational structure to match the complexities and demands of single or multiple incidents without being hindered by jurisdictional boundaries

- NIMS requires the use of ICS for all domestic responses

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NIMS INFORMATION (cont)

- Incidents typically begin and end locally and are managed on a daily basis at the lowest possible geographical, organizational, and jurisdictional level

- Successful incident management operations may depend on the involvement of multiple jurisdictions, levels of government, functional agencies, and/or emergency responder disciplines

- Such incidents require effective and efficient coordination across this broad spectrum of organizations and activities

NIMS INFORMATION (cont)

- NIMS enhances interoperability through use of a systematic approach to integrating the best existing processes and methods into a unified national framework for incident management

- NIMS does this through a core set of concepts, principles, procedures, organizational processes, terminology, and standards requirements applicable to a broad community of NIMS users

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Aircraft Rescue and Fire Fighting
Volume 1
Introduction to ARFF

To Contact the
Federal Aviation Administration
ARFF Specialist:

Federal Aviation Administration
Airport Safety and Standards, AAS-300
800 Independence Avenue SW, Room 618
Washington, D.C. 20591
(202) 267-8732
Fax (202) 493-1416

or visit

w.faa.gov/airports/airport_safety/aircraft_rescue_fire_fighting/

- Intro to ARFF
- Airport Familiarization
- Aircraft familiarization
- Fire fighter personnel safety
- Emergency communications
- Fire Fighting equipment
- Extinguishing Agents
- Aircraft evacuation
- Fire Fighting Operations
- Using the Emergency Response Guide book

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ARFF TRAINING DVD II

- Developed in conjunction w/ new Advisory Circular (150/5210.23 – ARFF Vehicle & High Reach Extendable Turret (HRET) Operation, Training and Qualifications)

- What it covers?
  - Aircraft Forcible Entry
  - High Reach Extendible Turret (HRET) operations.
  - Cargo aircraft

AIRCRAFT RESCUE AND
FIRE FIGHTING

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Aircraft Forcible Entry
Firefighting with the HRET
Cargo Aircraft Firefighting

DVD

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OPEN

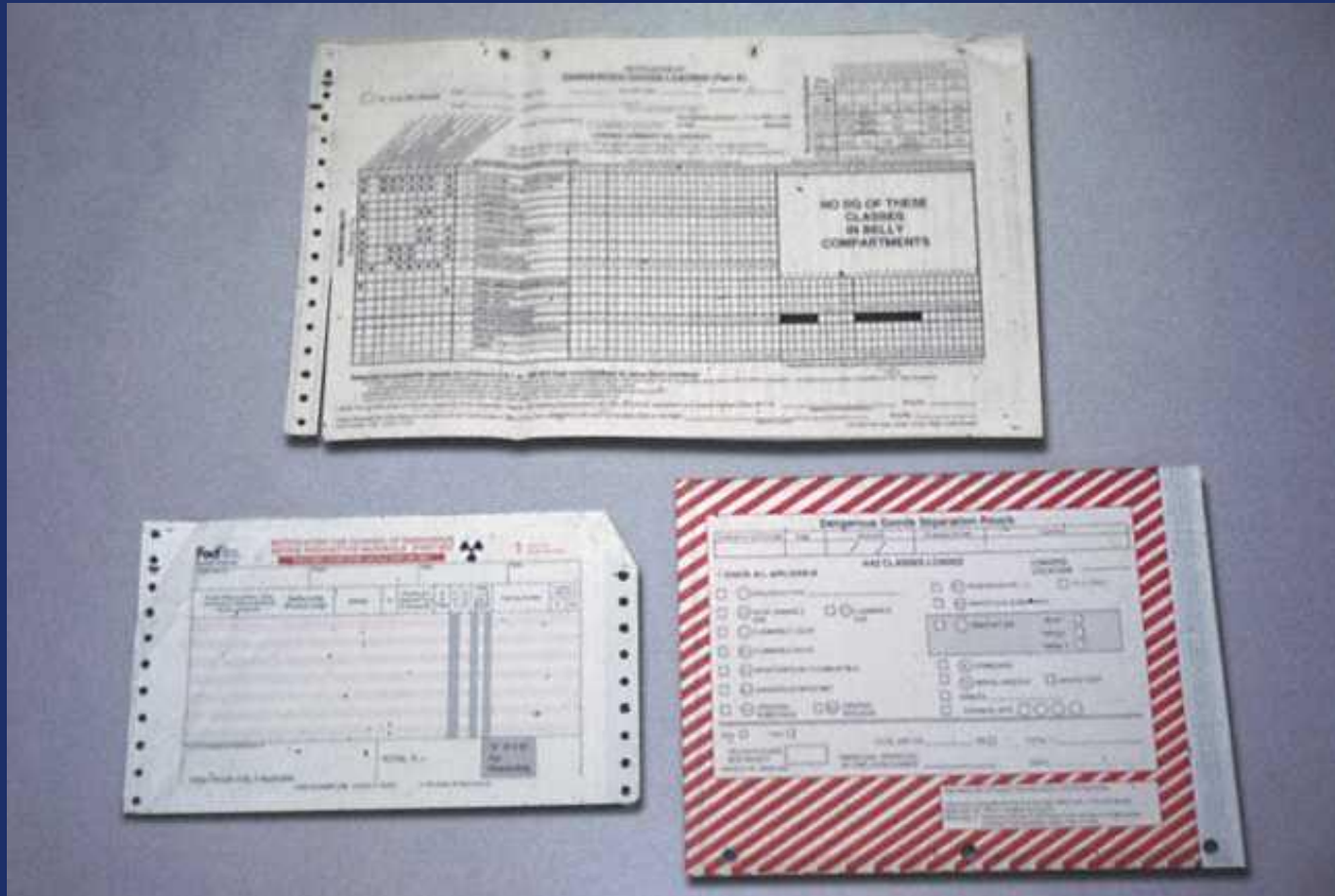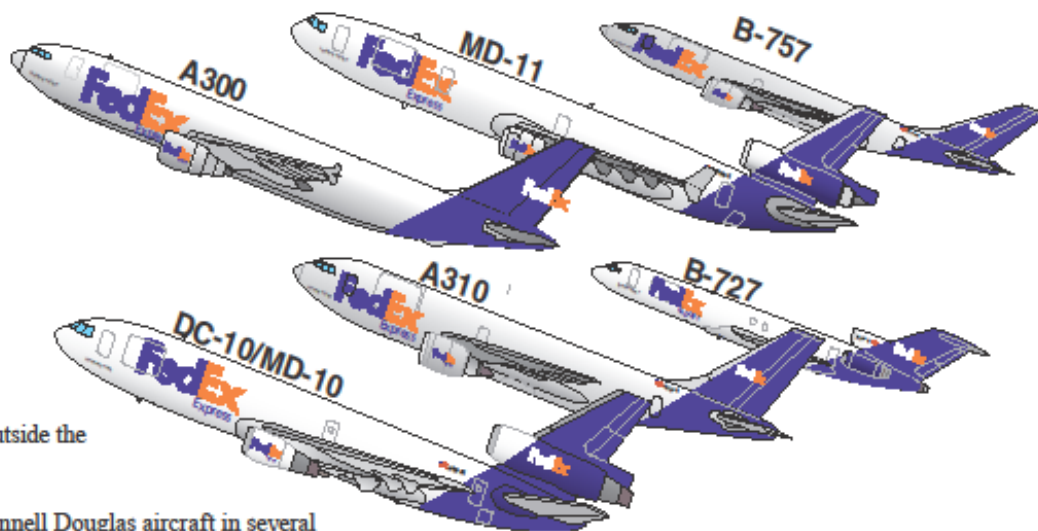OPEN AIRPLANE DOOR

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Notification to Captain

Cargo Position Guide

How to Use this Guide

The drawings in this guide provide measurements to assist in locating interior cargo positions from outside the aircraft.

FedEx Express operates Boeing, Airbus and McDonnell Douglas aircraft in several different versions.

To locate a cargo position you will need the aircraft:

- Type, i.e., Airbus A310
- Configuration, i.e., 22 position configuration
- Dangerous Goods Manifest – Provides detailed dangerous goods information by load position.

This information is available from the local FedEx Express ramp office or FedEx Express Global Operations.

Disclaimer
This document is designed only to help identify the location of Dangerous Goods shipments from the outside of a FedEx Express aircraft. It does not provide all of the information required to address an aircraft incident.
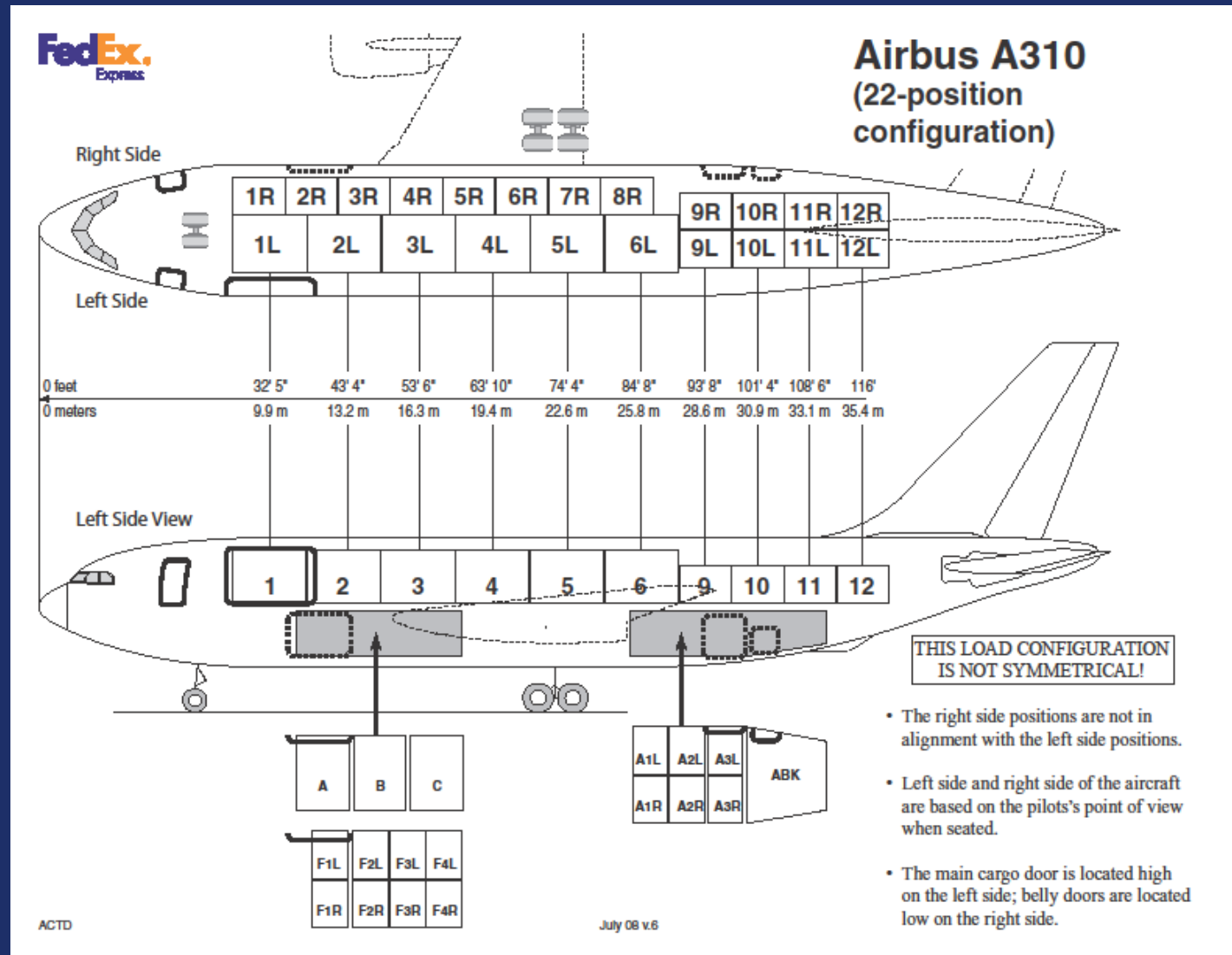
July 08 v.6

Key
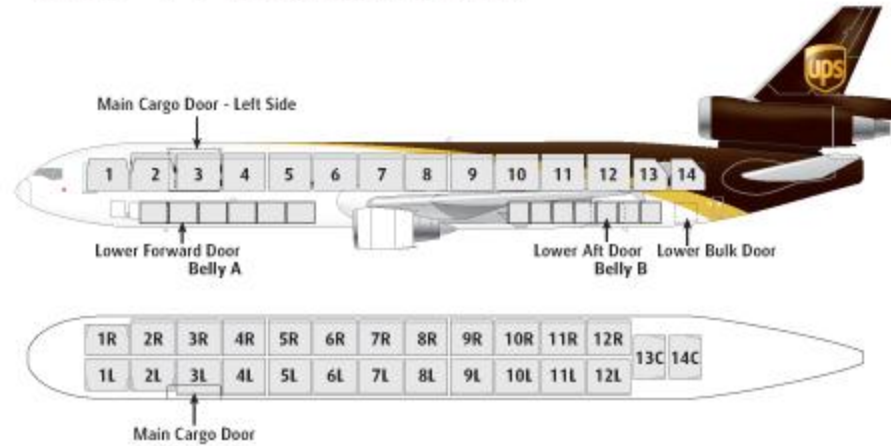
Doors shown in solid lines are visible from the drawing's perspective.

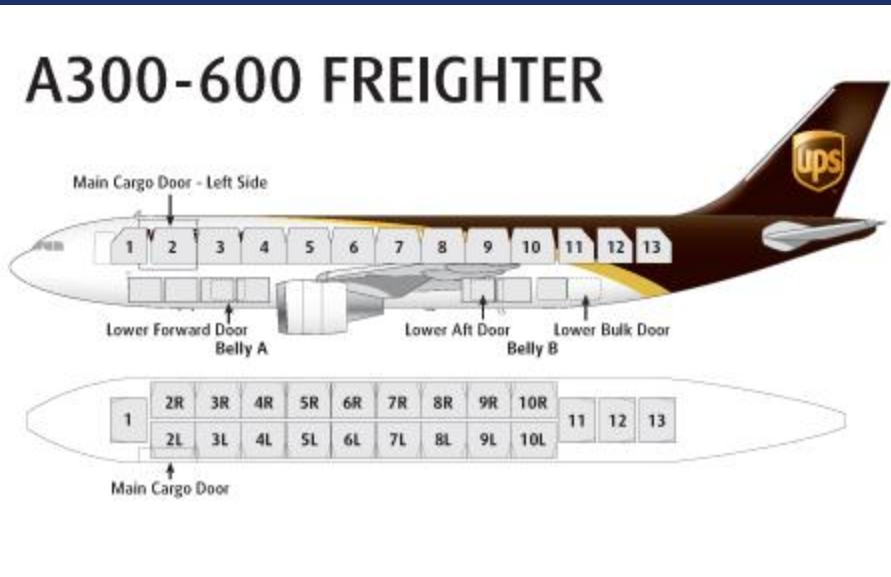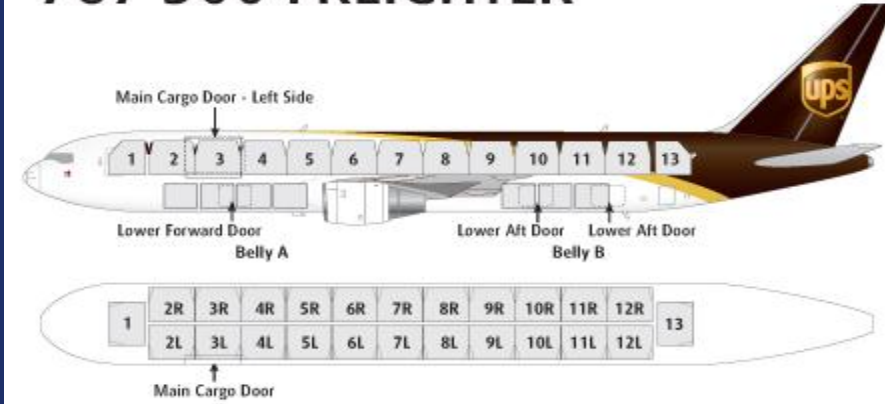Doors shown in dashed lines are not visible from the drawing's perspective.

CARGO POSITION

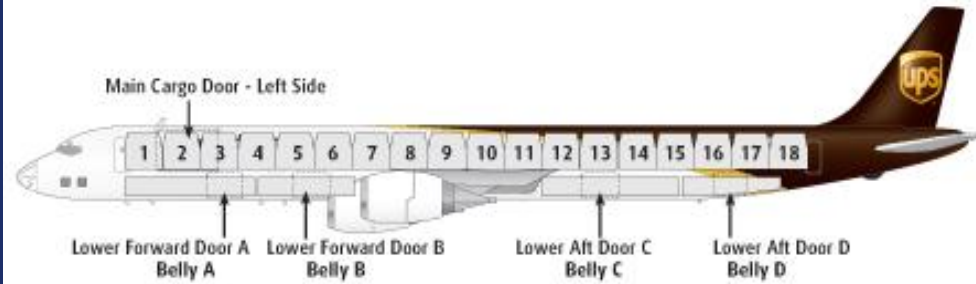**Federal Aviation Administration**
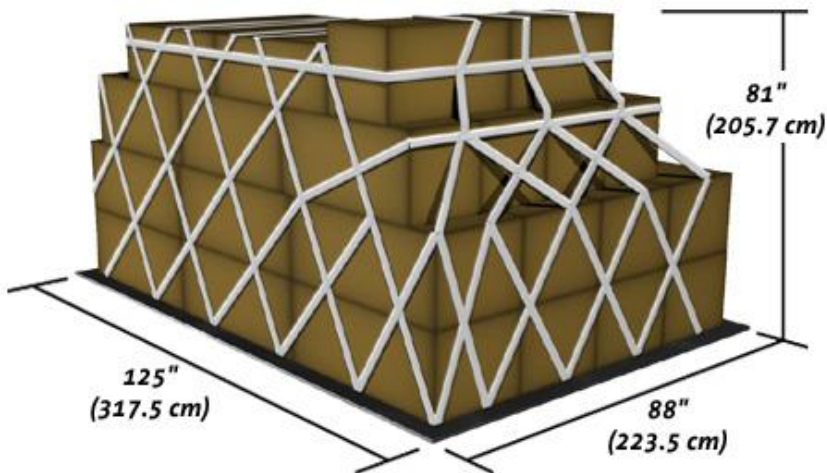
Cargo containers

A2N PALLET

81" (205.7 cm)
125" (317.5 cm)
88" (223.5 cm)

A2N CONTAINER

81" (205.7 cm)
40.5" (102.9 cm)
45" (114.3 cm)
125" (317.5 cm)
88" (223.5 cm)

A1N CONTAINER

96" (244 cm)
44.23" (112.3 cm)
125" (317.5 cm)
88" (223.5 cm)
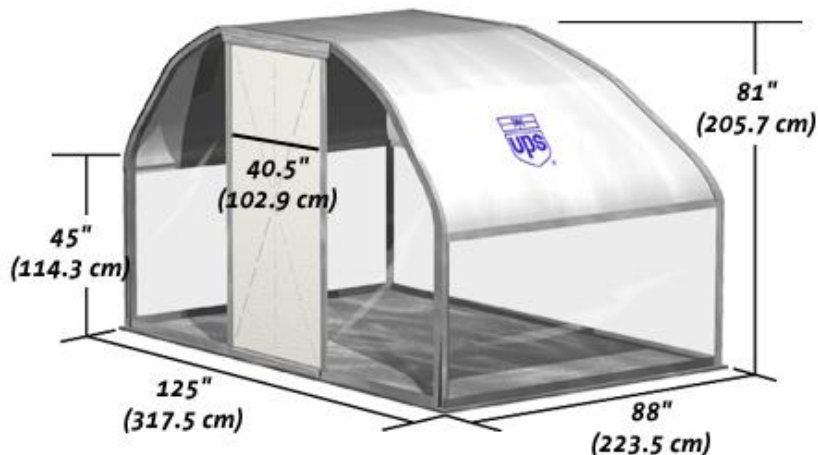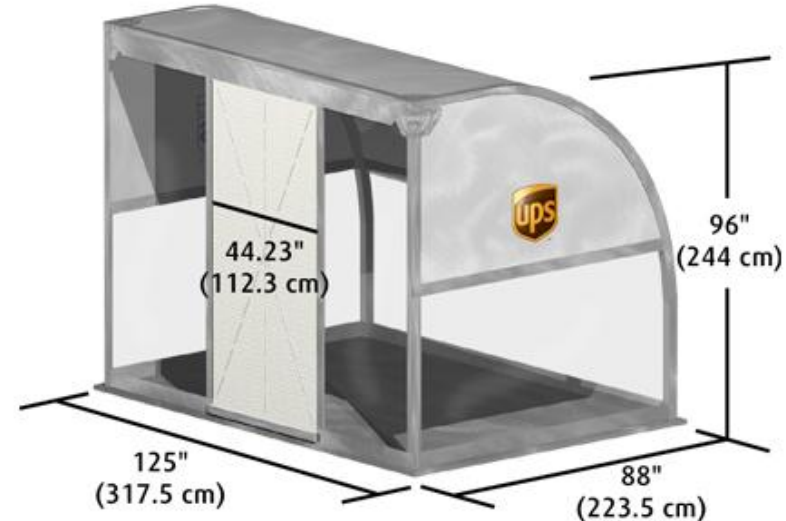
Airport Compliance

Airport Improvement Program (AIP)

Airport Safety

→ **Aircraft Rescue & Fire Fighting (ARFF)**

→ Airport Data & Contact Information

→ Airshows

→ CertAlerts

→ Part 139 Certification

→ Safety Management Systems

→ Signs & Marking

Engineering, Design, & Construction

Environmental Program

Major Airport Development

News & Information

Passenger Facility Charge (PFC) Program

Planning & Capacity

Resources

Runway Safety

FAA Home » Airports » Airport Safety » Aircraft Rescue & Fire Fighting (ARFF)

Aircraft Rescue and Fire Fighting (ARFF)

🖨 Print ✉ Email | Updated: 2:56 pm ET July 20, 2010

Operators of Part 139 airports must provide aircraft rescue and firefighting (ARFF) services during air carrier operations that require a Part 139 certificate. The guidance and resources below address ARFF training, ARFF vehicles, and other aviation fire and rescue requirements.

More on Part 139 >>

FAA ARFF Specialist
Marc Tonnacliff
Federal Aviation Administration
800 Independence Ave. SW
Airport Safety and Standards, AAS-300, Room 618
Washington, DC 20591
(202) 267-8732
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ARFF First Responder Training

- Ballistic Parachute System Familiarization (Module 4) (added 3/11/2010)

ARFF-Related Advisory Circulars

View All Series 150 Advisory Circulars (ACs)

Number	Title
150/5200-12	First Responders' Responsibility for Protecting Evidence at the Scene of an Aircraft Accident/Incident
150/5200-31	Airport Emergency Plan

Do You Want To... ?

View airport program statistics

Search airport data

Find an airport AC 🔍

Read best practices for runway safety

Learn about the Airport Improvement Program

FAA ARFF Web site

- What you'll find
    - Contact information
    - Advisory Circulars – ARFF
    - CertAlerts – ARFF
    - Additional Resources
        - FAA Technical Center Resources
        - Contact information @ Tech Center
        - First Responder program

- http://www.faa.gov/airports/airport_safety/aircraft_rescue_fire_fighting/

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Input for Advisory Circulars

- Sign up to receive automatic email when updates happen

- Watch for public comment periods

- If you don't submit don't complain

Advisory Circulars

- 150/5210.23 – ARFF Vehicle & High Reach Extendable Turret (HRET) Operation, Training and Qualifications
  - New AC
  - Will correspond with new training DVD
  - Tactical applications and fire fighting strategies using the HRET
  - Published end of September 2010
  - The ACSI will be asking to see your training plans for vehicle operator's

Advisory Circulars (cont.)

- 150/5210.13C – Water Rescue Plans and Equipment
  - Published end of September 2010
  - Sample Water Rescue Plan
  - Sample Water Rescue Checklist
  - 14 CFR 139.325(f)

Advisory Circulars (cont.)

- AC 150/5220.17 Design Standards for an Aircraft Rescue and Firefighting Training Facility

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UPDATED ARFF INFORMATION

- ARFF Vehicle Procurement Program
    - Like building a car
    - Based off of airport Index
    - Automatically adds booster heaters
    - Follows AC 150-5220.10D
    - Will have a new version designation

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ACRP PROJECTS

- Command Level Decision Making
  - Computer Based Program
  - Used for upper level personnel
  - Do out this calendar year
  - FREE

- ACRP 11-02
  - Risk Assessment of Proposed ARFF Standards
  - Will be published later this year.

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ACRP PROJECTS (cont)

- ## ACRP 04-10 Airport-to-Airport Mutual Aid Programs
  - ### Two grass-roots organizations :
    - Southeastern Airports Disaster Operations Group (SEADOG)
    - Western Airports Disaster Operations Group (WestDOG), known collectively as the DOGs.
  - ### The DOGs serve as a mechanism to assist impacted airports and to coordinate with airports seeking to provide assistance, much in the same way as utility companies provide for each other.
  - ### A guide book will be developed

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ACRP PROJECTS (cont)

- **Project 4-12**
  - *Using Integrated Emergency Data Communications Systems at Airports*

- **ACRP 04-13**
  - Integrating Community Emergency Response Teams at Airports (CERT)

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CLOSING

I have just covered some of what the FAA is working on. As we move forward with testing and the development of new procedures, you might ask yourself, "How can I help?"

Be proactive, provide comments to Advisory Circulars, submit research proposals to the Airport Corporative Research Program. Interaction between the you and the FAA is important in the development of processes, procedures and policies. It is critical for you to be actively involved, provide comments, feedback and input when asked. So, be alert, pay attention and get stay involved.

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QUESTIONS

?

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CONTACT INFORMATION

Marc Tonnacliff

800 Independence Ave. S.W.

AAS-300 Rm. 618

Washington, D.C. 20591

marc.tonnacliff@faa.gov

http://www.faa.gov/airports/airport_safety/aircraft_rescue_fire_fighting/

202-267-8732

REFERENCES

- http://www.nimsonline.com/

- http://www.nimsonline.com/what-is-the-national-incident-management-system.html

- http://www.nh.gov/safety/divisions/fstems/nims/index.html

- http://www.ascensionparish.net/index.php?option=com_content&view=article&id=124%3Anims-compliance&catid=102%3Aepc-items&Itemid=175

- http://www.fema.gov/pdf/emergency/nims/eop-sop_local_online.pdf

- http://www.fema.gov/emergency/nims/NIMSOverviewBriefing.ppt

- http://www.fema.gov/emergency/nims/FAQ.shtm

- http://www.faa.gov

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